



MEMORIA DE PUBLICACIONES 2017 FACULTAD DE CIENCIAS UAM

MEMORIA DE PUBLICACIONES DE LA FACULTAD DE CIENCIAS 2017

La Memoria de Publicaciones de la Facultad de Ciencias, como parte de la Memoria de Investigación, aspira a dar cuenta de los resultados de la investigación realizada a lo largo de 2017 por los profesores e investigadores de la Facultad.

Ha sido realizada por la Biblioteca de Ciencias contando con las aportaciones facilitadas por los Departamentos y por el Decanato de la Facultad, en la persona de la Vicedecana de Investigación, a quienes agradecemos enormemente su aportación.



Publicaciones en 2017	La Facultad ha generado un volumen de producción científica de 1.267 publicaciones
1.104 Trabajos Citables	En 2017 se han publicado un total de 1.104 trabajos citables (entre artículos y revisiones) de los que 1.056 tienen Factor de Impacto calculado (96%)
73% Trabajos Primer Cuartil – Q1	La Facultad de Ciencias tiene un total de 807 trabajos indexados en Q1, que supone el 73,10% del total de los trabajos publicados, prácticamente igual que el año anterior. Algunos departamentos superan este porcentaje situándose entre el 85% y 96%
1 Highly Cited Researchers	La Facultad de Ciencias tiene al único investigador de la UAM considerado como investigador altamente citado para el año 2017 en el área de Física, según los listados de Clarivate Analytics, elaborados a partir de la Web of Science. https://clarivate.com/hcr/researchers-list/archived-lists/ : es el profesor Francisco José García Vidal , del Departamento de Física Teórica de la Materia Condensada.

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Año 2017		Publicaciones				Indicadores de calidad						
	PDI**	Total	Artículos	Otras publicaciones	Ratio Pub. /PDI PERMANENTE	Con FI	Con FI %	Q1	% artículos en Q1	Sin FI	Sin FI %	
Biología	95	184	158	26	1,94	142	89,87%	79	50,00%	16	10,13%	17
Biología Molecular	51	144	130	14	2,82	129	99,23%	98	75,38%	1	0,77%	10
Ecología	24	86	59	27	3,67	48	81,36%	29	49,15%	11	18,64%	21
Física Aplicada	22	34	27	7	1,55	26	96,30%	16	59,26%	1	3,70%	3
Física De La Materia Condensada	29	84	80	4	2,90	79	98,75%	71	88,75%	1	1,25%	3
Física De Materiales	23	40	33	7	1,74	33	100,00%	28	84,85%	0	0,00%	0
Física Teórica	28	216	198	18	7,71	197	99,49%	171	86,36%	1	0,51%	15
Física Teórica De La Materia Condensada	18	58	53	5	3,22	51	96,23%	49	92,45%	2	3,77%	0
Geología Y Geoquímica	18	70	41	29	3,89	34	82,93%	13	31,71%	7	17,07%	8
Matemáticas	50	117	102	15	2,34	98	96,08%	61	59,80%	4	3,92%	8
Química	14	61	54	7	4,36	54	100,00%	50	92,59%	0	0,00%	0
Química Agrícola Y Bromatología	13	25	23	2	1,92	21	91,30%	17	73,91%	2	8,70%	2
Química Analítica Y Análisis Instrumental	16	17	12	5	1,06	11	91,67%	8	66,67%	1	8,33%	0
Química Física Aplicada	57	118	115	3	2,07	113	98,26%	98	85,22%	2	1,74%	7
Química Inorgánica	20	31	30	1	1,55	30	100,00%	29	96,67%	0	0,00%	4
Química Orgánica	27	54	50	4	2,00	49	98,00%	39	78,00%	1	2,00%	2
Total Facultad Ciencias*	505	1.267	1.104	163	2,51	1.039	94,11%	807	73,10%	65	5,89%	81

*El total no corresponde a la suma por Departamentos ya que hay registros compartidos por más de uno.

** Se refiere al PDI Permanente a fecha de octubre 2017

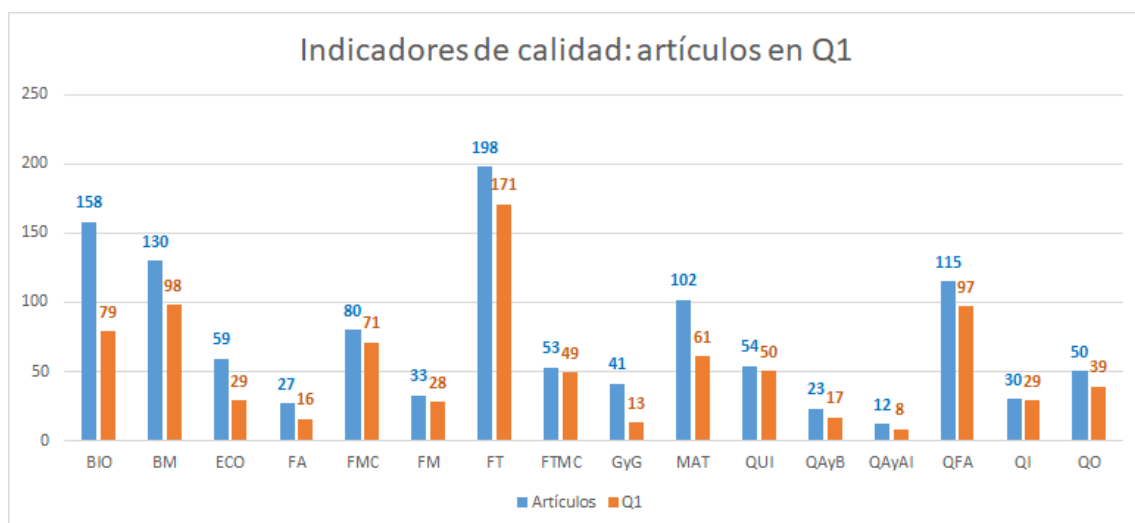
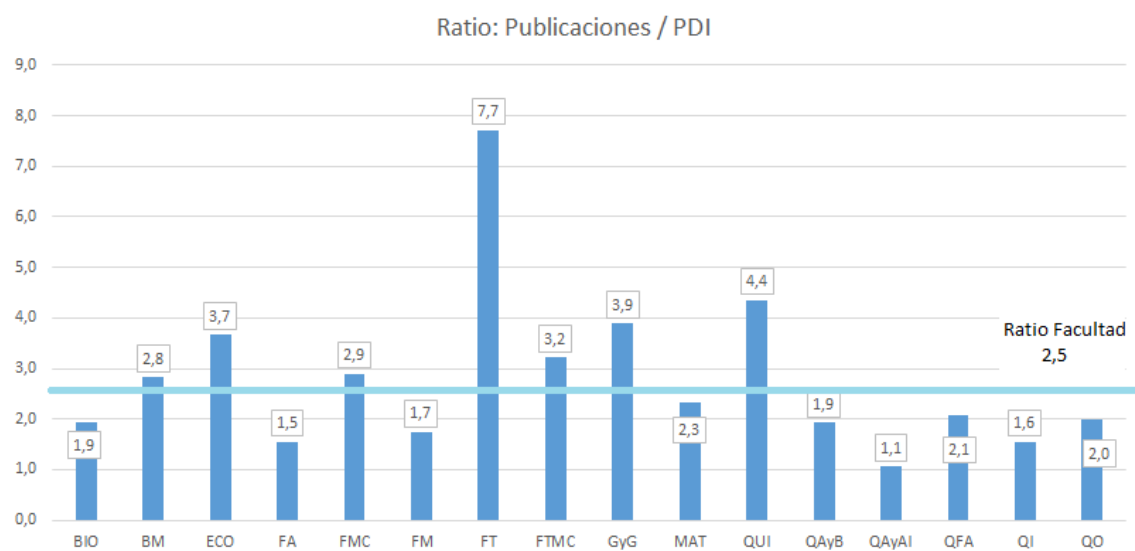
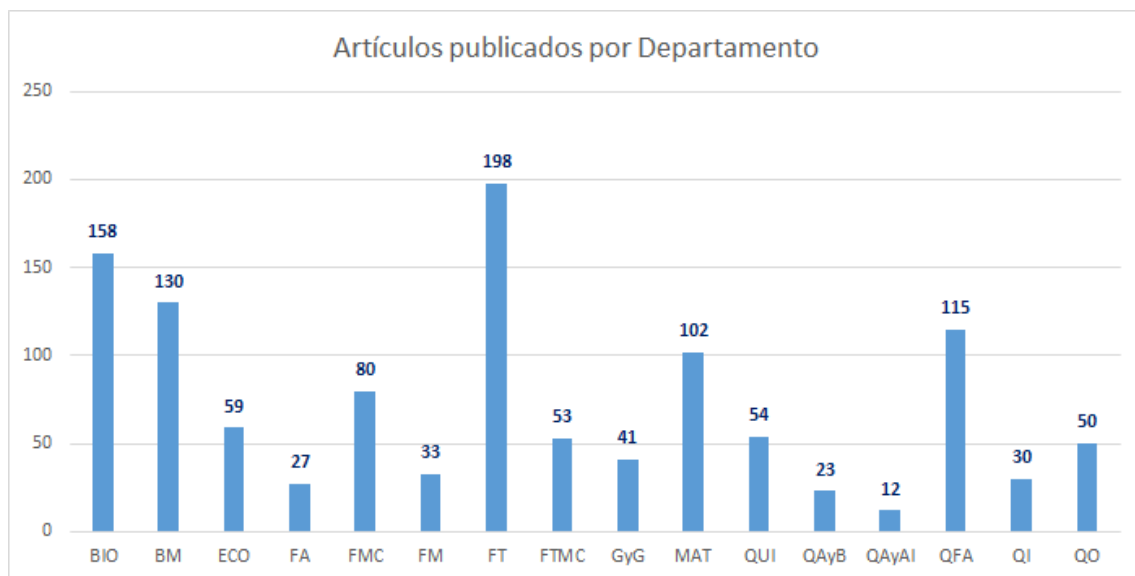
GRÁFICOS:

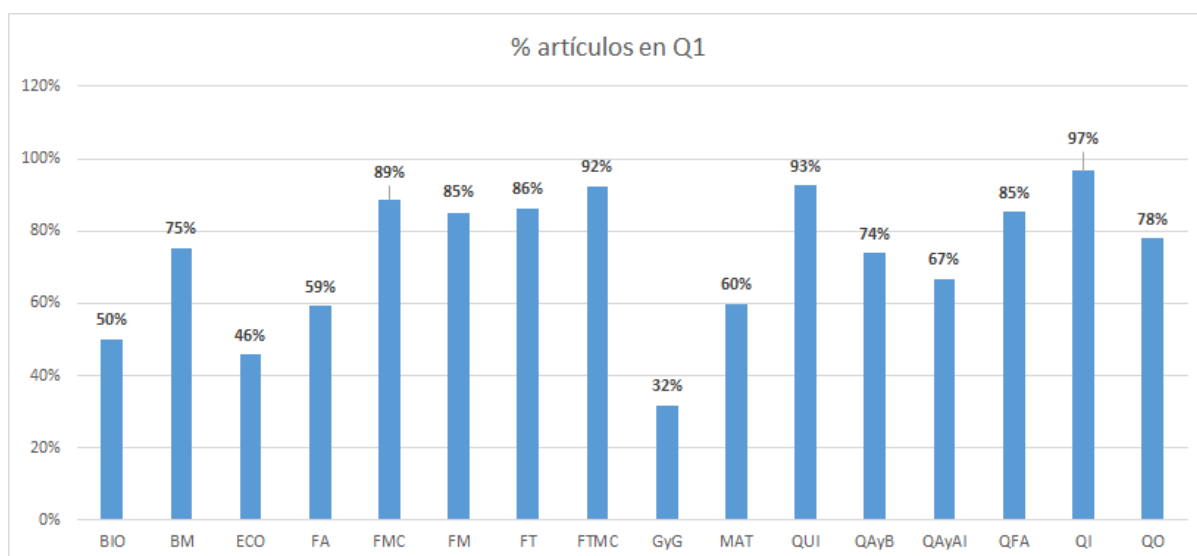
Para mejorar la comprensión de los gráficos hemos abreviado el nombre de los Departamentos:

Departamentos

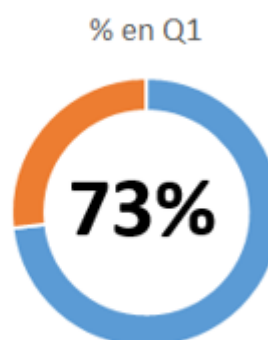
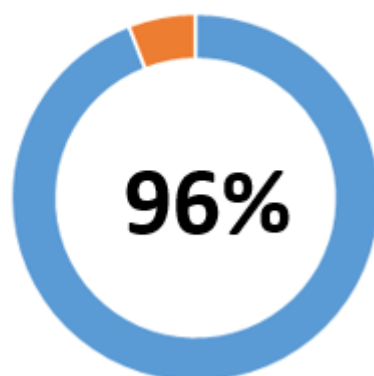
BIO	Biología	GyG	Geología y Geoquímica
BM	Biología Molecular	MAT	Matematicas
ECO	Ecología	QUI	Química
FA	Física Aplicada	QAYB	Química Agrícola y Bromatología
FMC	Física de la Materia Condensada	QAYAI	Química Analítica y Análisis Instrumental
FM	Física de Materiales	QFA	Química Física Aplicada
FT	Física Teórica	QI	Química Inorgánica
FTMC	Física Teórica de la Materia Condensada	QO	Química Orgánica







Artículos publicados en revistas con factor
de impacto



Comparativa 2016 – 2017

Evolución Personal Docente e Investigador permanente:

	PDI permanente			Ratio Dto/Facultad	
	2017	2016	Evolución	2017	2016
Biología	95	94	1,1%	18,8%	18,4%
Biología Molecular	51	54	-5,6%	10,1%	10,5%
Ecología	24	24	0,0%	4,8%	4,7%
Física Aplicada	22	24	-8,3%	4,4%	4,7%
Física De La Materia Condensada	29	29	0,0%	5,7%	5,7%
Física De Materiales	23	24	-4,2%	4,6%	4,7%
Física Teórica	28	28	0,0%	5,5%	5,5%
Física Teórica De La Materia Condensada	18	17	5,9%	3,6%	3,3%
Geología Y Geoquímica	18	17	5,9%	3,6%	3,3%
Matemáticas	50	55	-9,1%	9,9%	10,7%
Química	14	13	7,7%	2,8%	2,5%
Química Agrícola Y Bromatología	13	13	0,0%	2,6%	2,5%
Química Analítica Y Análisis Instrumental	16	16	0,0%	3,2%	3,1%
Química Física Aplicada	57	57	0,0%	11,3%	11,1%
Química Inorgánica	20	22	-9,1%	4,0%	4,3%
Química Orgánica	27	25	8,0%	5,3%	4,9%
Total Facultad Ciencias	505	512	-1,4%	100,0%	100,0%

Evolución publicaciones por Departamentos y ratio Publicaciones por PDI años 2016 y 2017

	Total			Artículos			Otras publicaciones			Ratio Pub. /PDI PERMANENTE	
	2017	2016	Evolución	2017	2016	Evolución	2017	2016	Evolución	2017	2016
Biología	184	217	-15,2%	158	162	-2,5%	26	55	-52,7%	1,94	2,31
Biología Molecular	144	147	-2,0%	130	131	-0,8%	14	16	-12,5%	2,82	2,72
Ecología	86	74	18,9%	59	66	-10,6%	27	8	262,5%	3,08	3,08
Física Aplicada	34	51	-33,3%	27	43	-37,2%	7	8	-12,5%	1,55	2,13
Física De La Materia Condensada	84	89	-5,6%	80	87	-8,0%	4	2	100,0%	2,90	3,07
Física De Materiales	40	65	-38,5%	33	61	-45,9%	7	4	75,0%	1,74	2,71
Física Teórica	216	428	-49,5%	198	401	-50,6%	18	27	-33,3%	7,71	15,29
Física Teórica De La Materia Condensada	58	71	-18,3%	53	67	-20,9%	5	4	25,0%	3,22	4,18
Geología Y Geoquímica	70	70	0,0%	41	61	-32,8%	29	9	222,2%	3,89	4,12
Matemáticas	117	100	17,0%	102	79	29,1%	15	21	-28,6%	2,34	1,82
Química	61	70	-12,9%	54	64	-15,6%	7	6	16,7%	4,36	5,38
Química Agrícola Y Bromatología	25	52	-51,9%	23	28	-17,9%	2	24	-91,7%	1,92	4,00
Química Analítica Y Análisis Instrumental	17	19	-10,5%	12	15	-20,0%	5	4	25,0%	1,06	1,19
Química Física Aplicada	118	117	0,9%	115	107	7,5%	3	10	-70,0%	2,07	2,05
Química Inorgánica	31	38	-18,4%	30	37	-18,9%	1	1	0,0%	1,55	1,73
Química Orgánica	54	63	-14,3%	50	61	-18,0%	4	2	100,0%	2,00	2,52
Total Facultad Ciencias	1.267	1.596	-20,6%	1.104	1.401	-21,2%	163	195	-16,4%	2,51	3,12

**El total no corresponde a la suma por Departamento ya que hay registros compartidos por más de uno.*

Evolución Artículos científicos e indicadores de calidad Q1 Años 2016 y 2017

	Artículos			Q1	% artículos en Q1	Q1	% artículos en Q1	Sin FI	SIN FI
	2017	2016	Evolución	2017	2017	2016	2016	2017	2016
Biología	158	162	-2,5%	79	50%	95	59%	16	17
Biología Molecular	130	131	-0,8%	98	75%	89	68%	1	10
Ecología	59	66	-10,6%	29	49%	29	44%	11	21
Física Aplicada	27	43	-37,2%	16	59%	27	63%	1	3
Física De La Materia Condensada	80	87	-8,0%	71	89%	76	87%	1	3
Física De Materiales	33	61	-45,9%	28	85%	56	92%	0	0
Física Teórica	198	401	-50,6%	171	86%	328	82%	1	15
Física Teórica De La Materia Condensada	53	67	-20,9%	49	92%	60	90%	2	0
Geología Y Geoquímica	41	61	-32,8%	13	32%	32	52%	7	8
Matemáticas	102	79	29,1%	61	60%	42	53%	4	8
Química	54	64	-15,6%	50	93%	57	89%	0	0
Química Agrícola Y Bromatología	23	28	-17,9%	17	74%	25	89%	2	2
Química Analítica Y Análisis Instrumental	12	15	-20,0%	8	67%	12	80%	1	0
Química Física Aplicada	115	107	7,5%	98	85%	81	76%	2	7
Química Inorgánica	30	37	-18,9%	29	97%	29	78%	0	4
Química Orgánica	50	61	-18,0%	39	78%	50	82%	1	2
Total Facultad Ciencias	1.104	1.401	-21,2%	807	73%	1023	73%	48	81

*El total no corresponde a la suma por Departamento ya que hay registros compartidos por más de uno.

Hemos comprobado una importante modificación en los indicadores de calidad 2017 de muchas revistas, en la mayoría de los casos la modificación en el cuartil ha sido a la baja.

Dónde Publica la Facultad de Ciencias:

La Facultad presenta un nivel de dispersión muy elevado en cuanto a las revistas en las que publica. En 2017, se ha publicado en más de 530 revistas, de las que solamente en 16, han aparecido 10 artículos o más. Contabilizándose más de 350 publicaciones con un único artículo.

Se han publicado 52 artículos científicos en 34 revistas españolas o escritas en español, de las que sólo una está posicionada en el primer cuartil y 18 no tienen factor de impacto. Por otra parte, aparecen en el apartado de Otras Publicaciones 13 artículos de divulgación, publicados en la Revista Quercus.

REVISTA	Artículos publicados	CUARTILES [Q]
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	40	Q1
JOURNAL OF HIGH ENERGY PHYSICS	35	Q1
PHYSICAL REVIEW B	26	Q1
SCIENTIFIC REPORTS	25	Q1
ASTRONOMY AND ASTROPHYSICS	19	Q1
PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	Q1; Q2
PHYSICAL REVIEW LETTERS	16	Q1
PHYSICAL REVIEW D	14	Q1
PLOS ONE	13	Q1
ASTROPHYSICAL JOURNAL	12	Q1
PHYSICAL REVIEW C	12	Q2
PHYSICS LETTERS, SECTION B	11	Q1; Q2
APPLIED CATALYSIS B: ENVIRONMENTAL	10	Q1
CHEMISTRY - A EUROPEAN JOURNAL	10	Q1
EUROPEAN PHYSICAL JOURNAL C	10	Q1

METODOLOGÍA

La presente Memoria de Publicaciones de la Facultad de Ciencias, extrae la información del Portal de Producción Científica de la UAM.

Tras un proceso de verificación y depuración se generó una primera versión y el 12 de marzo se remitió a los directores de los 16 departamentos para su revisión.

Se reciben propuestas de modificación de 12 de los 16 departamentos que, una vez validadas, se incorporan a la versión final, junto con las nuevas incorporaciones detectadas por la biblioteca.

Una vez finalizada la revisión, se analizan los datos relativos a indicios de calidad de las publicaciones incorporándose al presente documento.

Se incluyen tablas comparativas (2016-2017) de cada Departamento, tanto con sus resultados como con la media de la Facultad, en lo referente a: investigadores, publicaciones, artículos con factor de impacto, porcentaje de artículos publicados en revistas del primer cuartil y ratios de publicación.

FUENTES UTILIZADAS

- Para las publicaciones
 - Portal de Producción Científica de la UAM
 - Revisión facilitada por los Departamentos
 - Bases de datos: WoS, Scopus y Pubmed.
 - A petición de algunos Departamentos, se han incorporado publicaciones de profesores e investigadores no presentes en IMarina.
- Para los investigadores
 - Cifra de PDI permanente en la Facultad en octubre de 2017, desglosado por Departamentos, facilitada por la Vicedecana de Investigación y por el Vicedecano de Personal Docente e Investigador.
 - Portal de Producción Científica de la UAM [IMarina], con datos procedentes de la base de datos HOMINIS
- Para los indicios de calidad.
 - Se utilizan los indicadores de factor de impacto de las publicaciones JCR y SJR (Scimago), del año 2017.

Artículos (1104)

1. Aaboud M; Aad G; Abbott B; Abdallah J; Abdinov O; Abeloos B; Aben R; AbouZeid O; Abraham N; Abramowicz H; Abreu H; Abreu R; Abulaiti Y; Acharya B; Adamczyk L; Adams D; Adelman J; Adomeit S; Adye T; Affolder A; Agatonovic-Jovin T; Agrícola J; Aguilar-Saavedra J; Ahlen S; Ahmadov F;...Barreiro, F (2017). Search for dark matter in association with a Higgs boson decaying to b-quarks in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. PHYSICS LETTERS, SECTION B: NUCLEAR, ELEMENTARY PARTICLE AND HIGH-ENERGY PHYSICS, 765, 11-31. DOI: 10.1016/j.physletb.2016.11.035
2. Aaboud M; Aad G; Abbott B; Abdallah J; Abdinov O; Abeloos B; AbouZeid O; Abraham N; Abramowicz H; Abreu H; Abreu R; Abulaiti Y; Acharya B; Adachi S; Adamczyk L; Adams D; Adelman J; Adomeit S; Adye T; Affolder A; Agatonovic-Jovin T; Aguilar-Saavedra J; Ahlen S; Ahmadov F; Aielli G; Akerstedt H; Åkesson T; Akimov A; Alberghi G; Albert J; Albrand S; Alconada Verzini M; Aleksa M; Aleksandrov I; Alexa C; Alexander G; Alexopoulos T; Alhroob M; Ali B; Aliiev M (2017). Electron efficiency measurements with the ATLAS detector using 2012 LHC proton–proton collision data. EUROPEAN PHYSICAL JOURNAL C, 77(3), 195. DOI: 10.1140/epjc/s10052-017-4756-2
3. Aaron C, Cholaquidis A, Cuevas A (2017). Detection of low dimensionality and data denoising via set estimation techniques. ELECTRONIC JOURNAL OF STATISTICS, 11(2), 4596-4628. DOI: 10.1214/17-EJS1370
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5. Abadias L; De León-Contreras M; Torrea J (2017). Non-local fractional derivatives. Discrete and continuous. JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, 449(1), 734-755. DOI: 10.1016/j.jmaa.2016.12.006
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7. Abdellaoui B; Aguilar J; Barrios B; Colorado E; Charro F; García Azorero J; Medina M; Merchan S; Montoro L; Primo A (2017). Irene Peral: Forty Years as Mentor. ADVANCED NONLINEAR STUDIES, 17(2), 217-243. DOI: 10.1515/ans-2017-0003
8. Abe K, Bronner C, Pronost G, Hayato Y, Ikeda M, Iyogi K, Kameda J, Kato Y, Kishimoto Y, Marti L, Miura M, Moriyama S, Nakahata M, Nakano Y, Nakayama S, Okajima Y, Oritani A, Sekiya H, Shiozawa M, Sonoda Y, Takeda A, Takenaka A, Tanaka H, Tasaka S, Tomura T, Akutsu R, Kajita T, Kaneyuki K, Nishimura Y, Okumura K, Tsui K, Labarga L, Fernandez P, Blaszczyk F, Gustafson J, Kachulis C, Kearns E, Raaf J, Stone J, Sulak L (2017). Search for an Excess of Events in the Super-Kamiokande Detector in the Directions of the Astrophysical Neutrinos Reported by the IceCube Collaboration. ASTROPHYSICAL JOURNAL, 845(2), 124. DOI: 10.1088/0007-1384/845/2/124

9. Abe K; Bronner C; Pronost G; Hayato Y; Ikeda M; Iyogi K; Kameda J; Kato Y; Kishimoto Y; Marti L; Miura M; Moriyama S; Nakahata M; Nakano Y; Nakayama S; Okajima Y; Orii A; Sekiya H; Shiozawa M; Sonoda Y; Takeda A; Takenaka A; Tanaka H; Tasaka S; Tomura T; Akutsu R; Kajita T; Kaneyuki K; Nishimura Y; Okumura K; Tsui K; Labarga L; Fernández P; Blaszczyk F; Gustafson J; Kachulis C; Kearns E; Raaf J; Stone J; Sulak L (2017). Search for nucleón decay into charged antilepton plus meson in 0.316 megaton-years exposure of the Super-Kamiokande water Cherenkov detector SEARCH for NUCLeón DECAY into CHARGED K. ABE et al. PHYSICAL REVIEW D, 96(1), 012003. DOI: 10.1103/PhysRevD.96.012003
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12. Acevedo Cantero, Paula; Ana Isabel Mora Urda; M. del Pilar Montero; M. Dolores Cabañas; Consuelo Prado; M. Dolores Marrodán (2017). ¿Disminuye el exceso ponderal en la población adulta? Contraste entre las Encuestas Europeas de Salud en España de 2009 y 2014 / Is Overweight on the Decrease in the Adult Population? Differences Between the 2009 and 2014 European Health Surveys in Spain. REVISTA ESPAÑOLA DE CARDIOLOGIA (SN/BN: 24776049), 70(10), 875-6. DOI: 10.1016/j.recesp.2016.10.020
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14. Agnello A; Lin H; Buckley-Geer L; Treu T; Bonvin V; Courbin F; Lemon C; Morishita T; Amara A; Auger M; Birrer S; Chan J; Collett T; More A; Fassnacht C; Frieman J; Marshall P; McMahon R; Meylan G; Suyu S; Castander F; Finley D; Howell A; Kochanek C; Makler M; Martini P; Morgan N; Nord B; Ostrovski F; Schechter P; Tucker D; Wechsler R; Abbott T; Abdalla F; Allam S; Benoit-Lévy A; Bertin E; Brooks D; Burke D; Rosell A...García-Bellido, J. (2017). Models of the strongly lensed quasar DES J0408-5354. MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 472(4), 4038-4050. DOI: 10.1093/mnras/stx2242
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